

ABSTRACT

The invention provides a sound insulation/absorption structure, a sound insulation/absorption device, and a structure having these applied thereto and a member constituting the same, which are capable of insulating or absorbing sound by stiffness control. The sound insulation/absorption structure comprises a film member (1), such as a polymer film or metal foil, and a frame body (2) having at least one annular opening, the film member (1) being fixed to the frame body (2), the section of the film member (1) surrounded by the frame body (2) being of a curved shape such as a dome, wherein the resonance frequency of the in-plane stretching of this curved shape is set at a frequency equal to or higher than the audible frequency band, so as to insulate or absorb sound by the elastic force of the film. The film member (1) may be replaced by an acrylic, polyethylene terephthalate or other plastic plate, an aluminum or other metal plate, or a veneer or other plate member, molded into a curved shape, such as a dome, a semi-cylinder and a cone.